

**DOCTORAL PROGRAM IN
INFORMATION AND COMMUNICATION TECHNOLOGY**

Doctoral candidate

Yaroslav Nechaev

Cycle	30
Thesis	Linking Knowledge Bases To Social Media Profiles
Advisor	Claudio Giuliano (Fondazione Bruno Kessler)
Co-advisor	Francesco Corcoglioniti (Fondazione Bruno Kessler)

1. List of publications

Publications related to thesis:

1. Nechaev, Y., Corcoglioniti, F., and Giuliano, C. (2018). Sociallink: Exploiting Graph Embeddings to Link DBpedia Entities to Twitter Profiles. In: *Journal of Progress in Artificial Intelligence, Springer*
2. Nechaev, Y., Corcoglioniti, F., and Giuliano, C. (2017). Linking knowledge bases to social media profiles. In: *Proceedings of the Symposium on Applied Computing, SAC 2017, Marrakech, Morocco, April 3-7, 2017*
3. Nechaev, Y., Corcoglioniti, F., and Giuliano, C. (2017). Sociallink: Linking DBpedia Entities to Corresponding Twitter Accounts. In: *The Semantic Web - ISWC 2017 - 16th International Semantic Web Conference, Vienna, Austria, October 21-25, 2017, pages 165–174*
4. Nechaev, Y., Corcoglioniti, F., and Giuliano, C. (2018). Type Prediction Combining Linked Open Data and Social Media. In: *Proceedings of the 2018 ACM Conference on Information and Knowledge Management, CIKM 2018, Turin, Italy, October 26 - 28, 2018*
5. Nechaev, Y., Corcoglioniti, F., and Giuliano, C. (2017). Concealing Interests of Passive Users in Social Media. In: *Proceedings of the Re-coding Black Mirror 2017 Workshop co-located with 16th International Semantic Web Conference (ISWC 2017), Vienna, Austria, October 22, 2017*
6. Corcoglioniti, F., Giuliano, C., Nechaev, Y., and Zanolli, R. (2017). Pokedem: An Automatic Social Media Management Application. In: *Proceedings of the Eleventh ACM Conference on Recommender Systems, RecSys '17, Como, Italy, August 27 - 31, 2017, pages 358–359.*
7. Corcoglioniti, F., Nechaev, Y., Giuliano, C., and Zanolli, R. (2018). Twitter User Recommendation for Gaining Followers. In: *AI*IA 2018 Advances in Artificial Intelligence - 17th International Conference of the Italian Association for Artificial Intelligence, Trento, Italy, November 20-23, 2018*
8. Corcoglioniti, F., Palmero Aprosio, A., Nechaev, Y., and Giuliano, C. (2016). Microneel: Combining NLP Tools to Perform Named Entity Detection and Linking on Microposts. In: *Proceedings of the Fifth Evaluation Campaign of Natural Language Processing and Speech Tools for Italian. Final Workshop (EVALITA 2016), Napoli, Italy, December 5-7, 2016*

Other publications during the PhD:

9. Catalin Coman, A., Nechaev, Y., Zara, G. (2018). Predicting Emoji Exploiting Multimodal Data: FBK Participation in ITAmoji Task. In: *Proceedings of the Sixth Evaluation Campaign of Natural Language Processing and Speech Tools for Italian. Final Workshop (EVALITA 2018), Turin, Italy, December 12-13, 2018*
10. Catalin Coman, A., Zara, G., Nechaev, Y., Barlacchi G., Moschitti A. (2018). Exploiting Deep Neural Networks for Tweet-based Emoji Prediction. In: *Proceedings of the 2nd Workshop on Natural Language for Artificial Intelligence (NL4AI 2018) co-located with 17th International Conference of the Italian Association for Artificial Intelligence (AI*IA 2018), Trento, Italy, November 22-23rd, 2018*
11. Fell M., Nechaev Y., Cabrio E., Gandon F. (2018). Lyrics Segmentation: Textual Macrostructure Detection using Convolutions. In: *Proceedings of the 27th International Conference on Computational Linguistics, COLING 2018, Santa Fe, New Mexico, USA, August 20-26, 2018*

2. Research/study activities

In 2017, I have won the Microsoft Azure Research Award — a 20k\$ award to cover computational resources required to expand my SocialLink project. Additionally, the Wikimedia Foundation granted 75k euro to our unit to, among other things, integrate some of the functionality developed for my thesis into Wikidata.

In 2017, I went for a three month research period in Inria Sophia Antipolis - Méditerranée, France, where I was conducting research aimed at improving the prediction of objects and relations on images by using large unsupervised corpora like Twitter and Wikipedia.

Additionally, during the course of my PhD I have been actively contributing to the research activities carried out by my unit at Fondazione Bruno Kessler within funded European projects, such as the EIT-funded “Street Smart Retail” and “CREEP”.

Finally, I’ve participated in the last two EVALITA evaluation campaigns, reaching the second place in 2016 (see paper [8]) and winning the task in 2018 (see paper [9], which was also nominated for the best paper award as a result).

Training periods:

1. International Summer School on Deep Learning (DeepLearn 2017) in Bilbao, Spain
2. ACM Summer School on Recommender Systems 2017 in Bolzano, Italy

Conferences visited:

1. ACM Symposium on Applied Computing (SAC 2017) in Marrakech, Morocco (paper [2])
2. ACM Conference on Recommender Systems (RecSys 2018) in Como, Italy (paper [6])
3. International Semantic Web Conference (ISWC 2017) in Vienna, Austria (papers [3] and [5])
4. ACM Conference on Information and Knowledge Management (CIKM 2018) in Turin, Italy (paper [4])
5. Italian Conference on Computational Linguistics (CLiC-it 2018) in Turin, Italy (paper [9])